

Claims

1 1. In a World Wide Web (Web) communication network with
2 user access via a plurality of data processor controlled
3 client stations, a system for the handling of query
4 requests from a client station comprising:

5 service provider means supporting a set of said
6 plurality of client stations including:

7 means responsive to each query request from
8 each of said set of client stations for assigning
9 one of a set of IP addresses to each requesting
10 client station, and

11 means for sending each query request to a Web
12 server; and

13 a Web server comprising:

14 means for determining if said assigned IP
15 address is still assigned to said requesting client
16 station; and

17 means for sending a query response to said
18 requesting client station only if said IP address is
19 still assigned to said requesting station.

1 2. The Web query request handling system of claim 1
2 wherein said means for assigning said IP addresses
3 assigns an IP address to one requesting client station
4 for only as long as the one requesting client station
5 continues the query request.

1 3. The Web query request handling system of claim 2
2 wherein said service provider means further includes
3 means enabling the dynamic reassigning of an IP address
4 to another requesting client station upon the
5 discontinuance of a query request from one requesting
6 client station.

1 4. The Web query request handling system of claim 3
2 wherein said one requesting client station is a wireless
3 mobile station.

1 5. The Web query request handling system of claim 4
2 further including:

3 Web means for receiving a wireless query request
4 from said mobile station within a limited range of
5 transmission distance; and

6 wherein said mobile station is enabled to move out
7 of said limited range to thereby discontinue said query
8 request.

1 6. The Web query request handling system of claim 2
2 wherein:

3 said service provider means further includes
4 database means for recording the IP addresses dynamically
5 assigned to client stations; and

6 said means in said Web server for determining if
7 said assigned address is still assigned access to said
8 database.

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1 7. In a Web communication network with user access via a
2 plurality of data processor controlled client stations, a
3 service provider supporting a set of said client
4 stations, and a Web server for accessing and sending
5 client station requested queries to said client stations,
6 a method for the handling of query requests from a client
7 station comprising:

8 assigning one of a set of IP addresses to each
9 requesting client station responsive to each query
10 request from each of said set of client stations;

11 sending each query request to a Web server;

12 determining by said Web server if said assigned IP
13 address is still assigned to said requesting client
14 station; and

15 sending a query result to said requesting client
16 station only if said IP address is still assigned to said
17 requesting station.

1 8. The Web query request handling method of claim 7
2 wherein said step of assigning said IP addresses assigns
3 an IP address to one requesting client station for only
4 as long as the one requesting client station continues
5 the query request.

1 9. The Web query request handling method of claim 8
2 further including the step of enabling the dynamic
3 reassigning of an IP address to another requesting client
4 station by the service provider upon the discontinuance
5 of a query request from one requesting client station.

1 10. The Web query request handling method of claim 9
2 wherein said one requesting client station is a wireless
3 mobile station.

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1 11. The Web query request handling method of claim 10
2 further including the steps of:

3 receiving a wireless query request from said mobile
4 station within a limited range of transmission distance;
5 and

6 enabling said wireless mobile station to move out of
7 said limited range to thereby discontinue said query
8 request.

1 12. The Web query request handling method of claim 8
2 further including the steps of:

3 recording the IP addresses dynamically assigned to
4 client stations in a database at said service provider;
5 and

6 whereby said step of determining if said assigned
7 address is still assigned access to said database.

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1 13. A computer program having code recorded on a
2 computer readable medium for the handling of query
3 requests from a client station in a Web communication
4 network with user access via a plurality of data
5 processor controlled client stations, a service provider
6 supporting a set of said client stations, and a Web
7 server for accessing and sending client station requested
8 queries to said client stations, said program comprising:
9 means in said service provider supporting a set of
10 said plurality of client stations including:
11 means responsive to each query request from
12 each of said set of client stations for assigning
13 one of a set of IP addresses to each requesting
14 client station, and
15 means for sending each query request to a Web
16 server;
17 means in said Web server for determining if said
18 assigned IP address is still assigned to said requesting
19 client station; and
20 means in said Web server for sending a query result
21 to said requesting client station only if said IP address
22 is still assigned to said requesting station.

1 14. The Web query request handling computer program of
2 claim 13 wherein said means for assigning said IP
3 addresses assign an IP address to one requesting client
4 station for only as long as the one requesting client
5 station continues the query request.

1 17. The Web query request handling program of claim 16
2 further including:

6 wherein said mobile station is enabled to move out
7 of said limited range to thereby discontinue said query
8 request.

3 said service provider means further includes
4 database means for recording the IP addresses dynamically
5 assigned to client stations; and

6 said means in said Web server for determining if
7 said assigned address is still assigned access to said
8 database.